

Fig. 1

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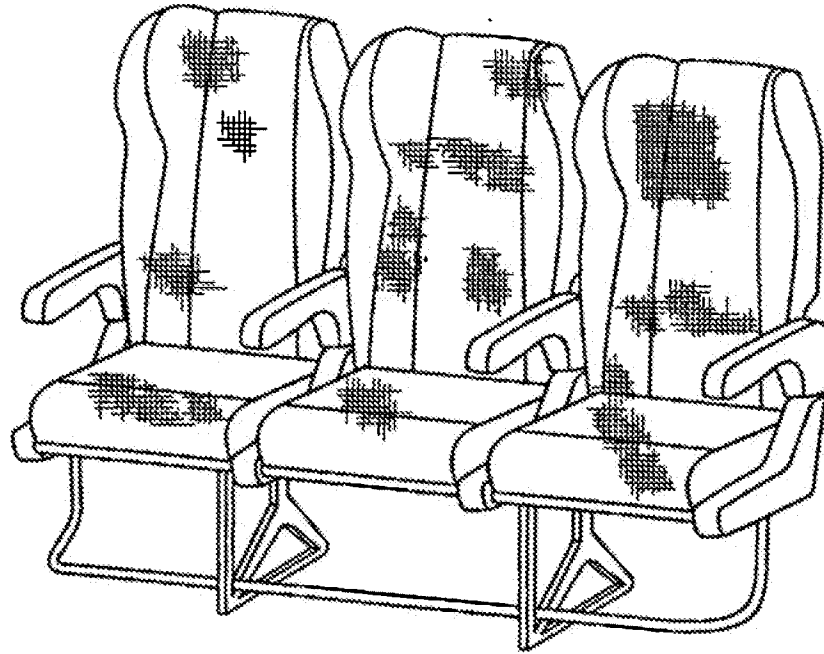
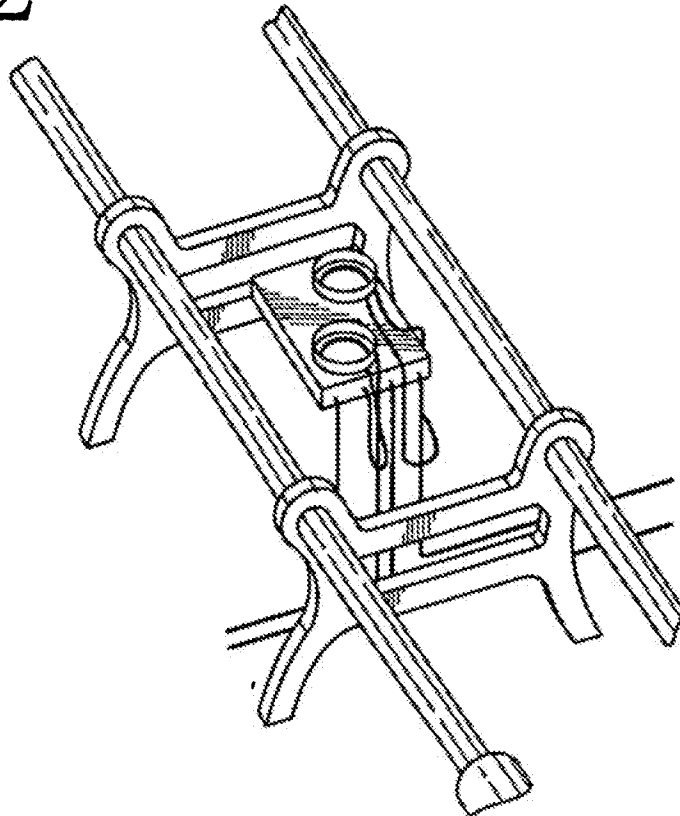


Fig. 2



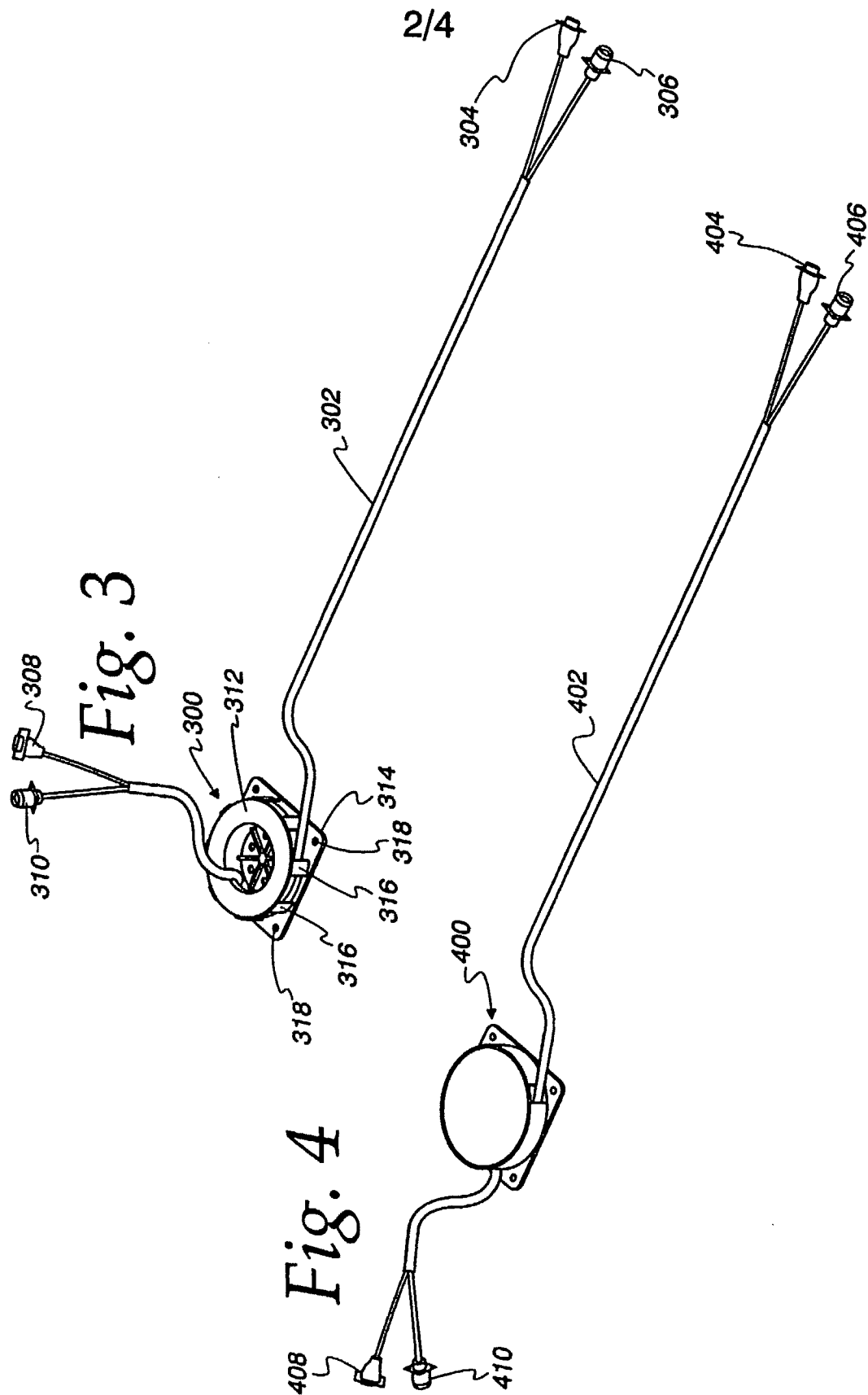
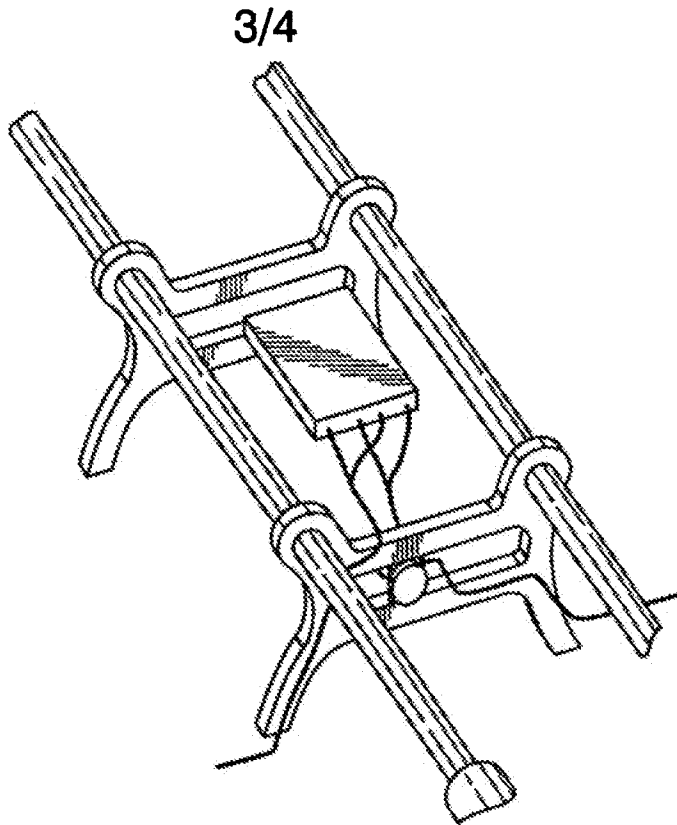
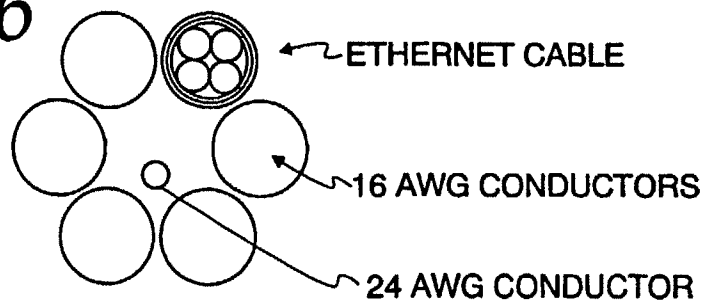


Fig. 5*Fig. 6***CONDUCTORS**

1 @ 24 AWG 19/36; LITZ WIRE; WHITE

5 @ 16 AWG 19/29; LITZ WIRE

COLORS: BLACK, RED, YELLOW, BLUE, GREEN

1 @ 26 AWG, 100-OHM ETHERNET CABLE

CABLING: PLANETARY, ROUND AS POSSIBLE

SHIELD: N/A

PERFORMANCE

VOLTAGE RATING - 600 VAC

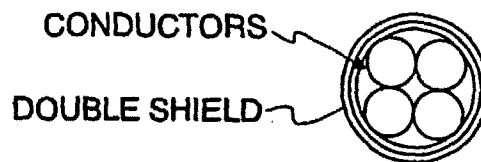
TEMPERATURE - 200C

FLAMMABILITY - SHALL PASS FAA FAR 25.869

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Fig. 7

26 AWG, 100-PHM ETHERNET CABLE

**CONDUCTOR**

AWG 26; 19x38: LITZ WIRE

RESISTANCE: 42.8 OHMS/1000FT

4 CONDUCTORS/4 COLORS WRAPPED AROUND (OPT) FILLER
RED, BLUE, YELLOW, GREEN**DOUBLE SHIELDED:**

MATERIAL: 38 AWG TINNED COPPER

INNER SHIELD MINIMUM 90% COVERAGE

OUTER SHIELD MINIMUM 85% COVERAGE

BINDER:USE PTFE BINDER BETWEEN CONDUCTORS AND SHIELD
AND OUTSIDE SHIELD.**CABLE CHARACTERISTICS (DESIRED)**DIFFERENTIAL IMPEDENCE: 100 \pm 10 OHMS

CAPACITANCE (NOM): 13 pF/FT

VELOCITY OF PROPOGATION (NOM): 80%

ATTENUATION (MAX): 3.2 dB/100m @ 1MHz (1.0 dB/100FT)
10.5 dB/100m @ 10MHz (3.2 dB/100FT)
36.0 dB/100m @ 100MHz (11.0 dB/100FT)**NEAR END CROSS TALK** $1 \leq f \leq 100 \text{ MHz: NEXT}(f) \geq 64 - 15 \log_{10}(f/0.772) \text{ (dB)}$ **STRUCTURAL RETURN LOSS** $1 \leq f \leq 20 \text{ MHz: } 23 \text{ dB}$ $20 \leq f \leq 100 \text{ MHz: SLR}_f \geq \text{SLR}_{20} - 10 \log_{10}(f/20) \text{ (dB)}$

FLAMMABILITY - SHALL PASS FAA FAR 25.869

TEMPERATURE - 200C

VOLTAGE RATING - 600 VAC